

Release Notes

PD4 Information Model Version 1.2.0.0

Build 4b – Development Release for Early Testing

Note that CCB-46 is not yet approved.

March 12, 2014

These notes detail the changes made to the PDS4 Information Model and contained in Release 1.2.0.0. These changes include those approved by the CCB since Version 1.1.0.0 and bug fixes since Version 1.1.0.1. The released documents include an XML Schema file, Schematron file, data dictionary, and an information model specification document.

CCB/MC approved changes made since the release of Version 1.1.0.0

1. CCB-46 – New Products.
 - a. Add Product_Native for InSight/SEIS SEED data format
 - b. Add Product_Telemetry for MAVEN Telemetry.
2. CCB-30 - Create a new Local_Internal_Reference class
3. CCB-41 - (Part 2) - Add three schematron rules for checking that both fields and groups are not zero in table record definitions - <Record_*>
4. CCB-22 – Adopt Rules for Case of Enumerated Values - (Part 2) – Telescope.coordinate_source values, carriage return line feed, etc. - (Part 1 done for V1.1.0.0) attribute_concept and conceptual_domain - (Part 3 – Resolved that no changes are necessary) - Steward_id
5. CCB-20 - Correct Minor Errors in Enumerated Values
 - Instrument.type - Deprecate “X-ray Fluorescence”, “Thermal And Electrical Conductivity Probe”, “Grinding And Drilling Tool”.
 - Replace X-ray Defraction Spectrometer with X-ray Diffraction Spectrometer; Alpha Particle Xray SpectrometerwithAlpha with Particle X-Ray Spectrometer
 - Add "Grinding Tool" and "Drilling Tool" to the list of enumerated values with definitions
 - Replace Encoded_Binary.encoding_standard_id “CCSDS Communications Protocols” with “CCSDS Space Communications Protocols”

- Replace Node.name#Navigation Ancillary Information Facility with Navigation and Ancillary Information Facility
- Replace PDS_Affiliate.team_name#Navigation Ancillary Information Facility with Navigation and Ancillary Information Facility
- 6. CCB-29 - Deprecate Display_2D_Image class
- 7. Add Display Dictionary.
- 8. CCB-50 - Add Array_3D_Map, Array_3D_Spectral_Map, Array_3D_Spectral_Movie as subclasses of Array_3D

Bug Fixes

1. Add "parent_of" to replace "subclass_of", "extension_of" and "restriction_of" in <DD_Association> and <DD_Association_External>
2. Delete duplicate permissible value 'collection_to_associate' from pds:Product_Collection.pds:Reference_List.pds:Internal_Reference.
3. Replace "pds.jpl.nasa.gov/pds4/schema/released/" with "pds.nasa.gov/pds4/" in the PDS4 label for the schema and schematron files.
4. Add schematron rule to check that the pds:File/pds:file_size unit = 'byte'
5. Restrict schematron rule pds:Target_Identification/pds:Internal_Reference to pds:Product_Observational/pds:Observation_Area/pds:Target_Identification /pds:Internal_Reference to eliminate conflict with similar associated with pds:Document.
6. remove dangling schematron rules for Discipline_Facets, Group_Facet1, and Group_Facet2
7. replace the message "In Product_Collection a description is required in Citation_Information." with "In Product_Bundle both Citation_Information and its description are required." for the schematron rules associated with Product_Bundle, Product_Collection, Product_Document, and Product_Text_File.
8. add the reference_types investigation_to_instrument_host, investigation_to_instrument, instrument_host_to_instrument, target_to_instrument_host, target_to_instrument, target_to_investigation to pds:Product_Context/pds:Reference_List/pds:Internal_Reference.
9. add schematron rule to validate that the names of the first and second axis of an Array_2D_Image must be set to Line and Sample.
10. add 'Product_Native' to the test for Product_Class.
11. deprecate 'carriage-return line-feed' from Checksum_Manifest, Inventory, Transfer_Manifest
12. remove extraneous blank from value of "restriction_of " in DD_Association/reference_type
13. replaced 'CSSDS' with 'CCSDS' in Encoded_Telemetry
14. replace 1 with 0 in "must be greater than 1" for validating number of characters in Citation_Information.description